

## **UNINTERRUPTIBLE POWER SUPPLY SPECIFICATION**

The 0.8 KW Uninterruptible Power Supply to be furnished under Item 0001 shall be in accordance with the following:

### **KIND OF MATERIALS:**

Isolation switches for input, output and battery  
System Network Management Protocol (SNMP) communication and control options  
Built-in test (BIT) capability  
On-line maintenance of batteries and battery charger  
Output voltmeter  
LED status indication for input, output, back-up mode operation, low battery, over current, over temperature and unit shutdown  
Fault signal for remote indication  
Circular coupling connectors  
Secondary fuse protection of output

### **ELECTRICAL DATA:**

Input 440VAC nominal 3 Phase, 60 HZ  
Output 28VDC  
Power rating 0.9 KW  
Power Backup time numerous durations available  
Efficiency 80%  
Number of output connectors 1

### **DIMENSIONS, SIZE OR CAPACITY (MAXIMUM):**

Width (inches) 24  
Depth (inches) 10  
Height (inches) 30  
Weight (pounds) 120

### **PRINCIPLES OF OPERATION:**

An uninterruptible power supply that continuously provided conditioned output power for critical electronics devices onboard naval ships.

### **RESTRICTIVE ENVIRONMENTAL CONDITIONS:**

EMI/EMC MIL-STD-461D 20 Aug 1999, CE101, CE102, CS101, CS114, CS116, RE101, RE102, RS101, RS103  
VIBRATION MIL-STD-167/1 21 MAY 1992, TYPE 1, 4 HZ TO 33 HZ  
SHOCK RESISTANCE MIL-S-901D 17 MAR 1989; GRADE A, CLASS 1, TYPE 1  
AIRBORNE NOISE MIL-STD-740-1 30 DEC 1986; GRADE A12

### **INTENDED USE:**

In the event of loss of ship service power, the UPS system continues to provide the output power for a specified time duration using rechargeable storage batteries. On restoration

of ship service power, the UPS system automatically reverts to input power from the ships service power to provide output and to charge storage batteries.

#### **EQUIPMENT WITH WHICH ITEM IS TO BE USED**

The electronic components of the Engineering Automatic Boiler Control (E-ABC); SMARS, FAIRMONT CONTROLLERS, I/P TRANSDUCERS, RADAR LEVEL TRANSMITTERS, ETC.

#### **END ITEM APPLICATION**

To provide back-up power to the electronics during a ship power causality.

#### **TESTING REQUIREMENTS**

Prior to delivery, the contractor shall test a quantity of one each of Item 0001 to ensure that it meets the specification requirements shown above for vibration, emi, and high shock in accordance with Military Specification; Vibration Per MIL-SPEC-167 date 21 may 1992, Grade A Shock MIL-SPEC-901D date 17 March 1989 and Electro-Magnetic Interference (EMI) MIL-STD-461D date 30 Dec 1986 respectively. Upon successful completion of the testing, a report detailing the results of the testing shall be submitted under Item 0002.

The Government reserves the right to wave the requirements for the test report covered by item 0002 for offerors who can demonstrate that the power supply they propose to furnish has previously successfully undergone the shock, vibration and EMI testing.